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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the subject application, and please amend the claims as follows:

1. (Currently amended) An implantable prosthesis having improved mechanical and chemical properties comprising:

a radiation resistant and hydrolytically stable biocompatible fabric having inner and outer surfaces and first and second ends;

said fabric having a textile construction of a plurality of polymeric filaments comprising a naphthalene dicarboxylate derivative, wherein said radiation resistant and hydrolytically stable biocompatible fabric is stable at a temperature of at least about 120°C,

and wherein said fabric comprises a plurality of drawn polymeric yarns which are directionally aligned or oriented to increase strength and dimensional stability.

- 2. (Original) The implantable prosthesis of claim 1 wherein said fabric is polyethylene naphthalate.
- 3. (Original) The implantable prosthesis of claim 1 wherein said fabric is selected from the group consisting of poly(ethylene naphthalate), poly(propylene naphthalate), polytrimethylene naphthalate, trimethylenediol naphthalate, poly(iso-propylene naphthalate), poly(n-butylene naphthalate), poly(iso-butylene naphthalate), poly(tert-butylene naphthalate), poly(n-pentylene naphthalate), poly(n-hexylene naphthalate), and combinations and derivatives thereof.



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- 4. (Original) The implantable prosthesis according to claim 1 wherein said textile construction is selected from the group consisting of weaves, knits, braids, filament windings or spun filament.
- 5. (Original) The implantable prosthesis according to claim 1 wherein said implantable prosthesis is a vascular graft
- 6. (Original) The implantable prosthesis according to claim 1 wherein said implantable prosthesis is an endovascular graft.
- 7. (Withdrawn) The implantable prosthesis according to claim 1 wherein said implantable prosthesis is selected from the group consisting of a balloon catheter, filter, mesh, vascular patch, hernia plug and arterial-vascular access graft.
- 8. (Original) The implantable prosthesis according to claim 1 further including a coating.
- 9. (Original) The implantable prosthesis according to claim 1, wherein the polymeric filaments have about 20 to about 100 filaments.
- 10. (Original) The implantable prosthesis according to claim 1, wherein the polymeric filaments have a denier from about 20 to about 1500.

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11. (Currently amended) An implantable prosthesis having improved mechanical and chemical properties comprising:

a radiation resistant and hydrolytically stable biocompatible tubular fabric of a textile construction,

said fabric having a plurality of yarns selected from the group consisting of polyethylene naphthalate, polybutylene naphthalate and combinations thereof, wherein said radiation resistant and hydrolytically stable biocompatible fabric is stable at a temperature of at least about 120°C,

and wherein said fabric comprises a plurality of drawn polymeric yarns which are directionally aligned or oriented to increase strength and dimensional stability.

- 12. (Original) The implantable prosthesis according to claim 11 wherein said implantable prosthesis is a intraluminal prosthesis.
- 13. (Original) The implantable prosthesis according to claim 11 wherein said implantable prosthesis is an endovascular graft.
- 14. (Original) The implantable prosthesis according to claim 11 further including a radially deformable support component.
- 15. (Original) The implantable prosthesis according to claim 14 wherein said support component is a radially deformable stent.

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16. (Cancelled)

- 17. (Currently amended) Method for making a radiation and thermal resistant and hydrolytically stable, steam sterilizable biocompatible prosthesis comprising:
- a) drawing a plurality of polymeric filaments comprising a naphthalene dicarboxylate derivative;
- <u>ba</u>) providing a fabric having an inner and outer surface and first and second ends, said fabric having a plurality of <u>said drawn</u> polymeric filaments comprising a naphthalene dicarboxylate derivative, wherein said fabric being stable at a temperature of at least about 120°C:
 - <u>c</u>b) selecting a textile construction pattern; and
 - <u>de</u>) forming said prosthesis in accordance with a textile construction pattern.
- 18. (Currently amended) Implantable prosthesis comprising a fabric having improved chemical and mechanical properties formed by the process comprising:
- a) drawing a plurality of polymeric filaments comprising a naphthalene dicarboxylate derivative;
- <u>ba</u>) providing a fabric having an inner and outer surface and first and second ends, said fabric having a plurality of <u>said drawn</u> polymeric filaments comprising a naphthalene dicarboxylate derivative, said fabric being stable at a temperature of at least about 120°C;
 - **cb**) selecting a textile construction
 - de) forming said prosthesis in accordance with a textile pattern; and
 - ed) steam sterilizing said prosthesis.
- 19. (New) The implantable prosthesis according to claim 1, wherein said drawn polymeric yarns further increase tenacity of said prosthesis.



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20. (New) The implantable prosthesis according to claim 18, wherein the step of drawing a plurality of polymeric filaments further comprises drawing said polymeric filaments to a point just prior to the fracture point.

21. (New) An implantable prosthesis having improved mechanical and chemical properties comprising:

a radiation resistant and hydrolytically stable biocompatible fabric having inner and outer surfaces and first and second ends;

said fabric having a textile construction of a plurality of polymeric filaments comprising a naphthalene dicarboxylate derivative, wherein said radiation resistant and hydrolytically stable biocompatible fabric is stable at a temperature of at least about 120°C,

wherein said naphthalene dicarboxylate derivative conforms to the formula:

wherein R_1 and R_3 are the same or different groups and are independently selected from the group consisting of hydrogen radicals and methyl radicals; R_2 is an alkylene radical having 1 to 6 carbon atoms which may be linear or branched; and n is from about 10 to about 200.

